

Notice of Allowability

Application No.

10/673,197

Examiner

Robert A. Hopkins

Applicant(s)

CHANG ET AL.

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 9-30-03.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☒ The drawings filed on 30 September 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 9-30-03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

Claims 1-16 are allowed.

The following is an examiner's statement of reasons for allowance:

Claim 1 recites "a longitudinal cabinet to stand on a support surface, and having a hollow cylindrical shape; an air cleaning unit installed in the cabinet to move in a vertical direction, and provided with a blowing unit and a filtering unit to clean air; and an elevating unit provided at least one of the cabinet and the air cleaning unit to move the air cleaning unit in the vertical direction". Rush discloses an air cleaning apparatus having a bulkhead, and a filter and a blower which move along the bulkhead in a vertical direction via an elevating unit. However, Rush does not disclose "a longitudinal cabinet to stand on a support surface, and having a hollow cylindrical shape; an air cleaning unit installed in the cabinet to move in a vertical direction, and provided with a blowing unit and a filtering unit to clean air; and an elevating unit provided at least one of the cabinet and the air cleaning unit to move the air cleaning unit in the vertical direction. It would not have been obvious to someone of ordinary skill in the art to provide a longitudinal cabinet to stand on a support surface, and having a hollow cylindrical shape; an air cleaning unit installed in the cabinet to move in a vertical direction, and provided with a blowing unit and a filtering unit to clean air; and an elevating unit provided at least one of the cabinet and the air cleaning unit to move the air cleaning unit in the vertical direction because Rush does not suggest such a modification. Claims 2-15 depend on claim 1 and hence are also allowed.

Claim 16 recites "a longitudinal cabinet to stand on a support surface, an air cleaning unit installed in the cabinet to move in a vertical direction , an elevating unit provided at least one of the cabinet and the air cleaning unit to move the air cleaning unit in the vertical direction, a plurality of sensors provided in the cabinet to sense room air pollution levels; and a control unit to control the air cleaning unit to move in the vertical direction based on data obtained from the sensors". Rush discloses an air cleaning apparatus having a bulkhead, and a filter and a blower which move along the bulkhead in a vertical direction via an elevating unit. However, Rush does not disclose a longitudinal cabinet to stand on a support surface, an air cleaning unit installed in the cabinet to move in a vertical direction , an elevating unit provided at least one of the cabinet and the air cleaning unit to move the air cleaning unit in the vertical direction, a plurality of sensors provided in the cabinet to sense room air pollution levels; and a control unit to control the air cleaning unit to move in the vertical direction based on data obtained from the sensors. It would not have been obvious to someone of ordinary skill in the art to provide a longitudinal cabinet to stand on a support surface, an air cleaning unit installed in the cabinet to move in a vertical direction , an elevating unit provided at least one of the cabinet and the air cleaning unit to move the air cleaning unit in the vertical direction, a plurality of sensors provided in the cabinet to sense room air pollution levels; and a control unit to control the air cleaning unit to move in the vertical direction based on data obtained from the sensors because Rush does not suggest such a modification.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cicirello(3518046) discloses a stationary, vertically oriented air purifier, wherein the air purifier pulls a contaminated airflow from a middle portion of a room through an opening for ultraviolet and particulate filtration through opposite ends of the cabinet.

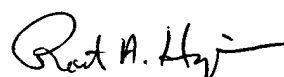
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Hopkins whose telephone number is 571-272-1159. The examiner can normally be reached on Monday-Friday, 7am-4pm, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rah
March 31, 2005


ROBERT A. HOPKINS
PRIMARY EXAMINER
A.U.1724